

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : **56-123102**  
(43)Date of publication of application : **28.09.1981**

---

(51)Int.CI.

H01P 1/205

---

(21)Application number : **55-026959**  
(22)Date of filing : **04.03.1980**

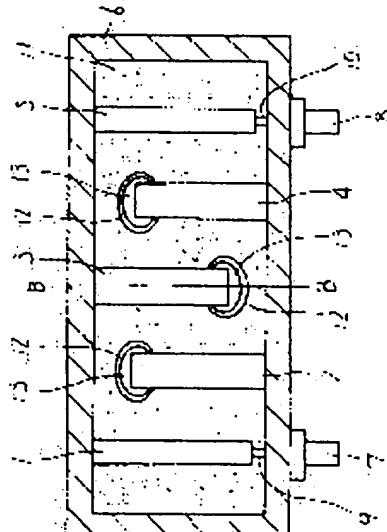
(71)Applicant : **MITSUBISHI ELECTRIC CORP**  
(72)Inventor : **ISHIDA OSAMI  
TAKEDA FUMIO  
KANITANI SHOJIRO  
ISODA YOJI**

---

## (54) INTERDIGITAL WAVE FILTER

### (57)Abstract:

**PURPOSE:** To eliminate the influence of fluctuations of temperature by providing a cavity in the 1st dielectric at one end of an internal conductor which is not connected to an external conductor and by providing the 2nd dielectric, whose temperature coefficient is reciprocal to the dielectric constant of the 1st dielectric, in the cavity.  
**CONSTITUTION:** Cavities 12 are provided in the 1st dielectric 11 at one-side terminals of internal conductors 2□4 which are not connected to external conductor 6. The 2nd dielectrics 13 are provided in cavities 12. The dielectric constant of the 2nd dielectric 13 is greater than that of the 1st dielectric 11 and has the reciprocal temperature coefficient. Therefore, the dielectric constants of both dielectrics 11 and 13 vary reciprocally with temperature, so that even if the temperature fluctuates, their resonance conditions will be satisfied.



---

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision  
of rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office